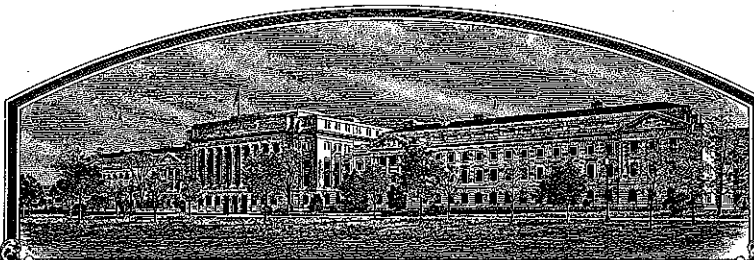


No.

200500291



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Michigan State University

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BEAN, FIELD

'Condor'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this seventeenth day of March, in the year two thousand and six.

Attest:

Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

Secretary of Agriculture



U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE  
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER <i>deleted 13 Jan 2006 per letter</i> Michigan State University and United States Department of Agriculture		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME B00101	3. VARIETY NAME CONDOR
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) Director, Office of Intellectual Property Michigan State University 246 Administration Bldg. East Lansing, MI 48824		5. TELEPHONE (include area code) (517) 355-2186	FOR OFFICIAL USE ONLY PVPO NUMBER <b>200500291</b> FILING DATE JULY 11, 2005
		6. FAX (include area code) (517) 432-3880	
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Land Grant University		8. IF INCORPORATED, GIVE STATE OF INCORPORATION	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Michigan State University Office of Intellectual Property 246 Administration Bldg. East Lansing, MI 48824			F E E S R E C E I V E D FILING AND EXAMINATION FEES: \$ 3,652.00 DATE 7/11/05 CERTIFICATION FEE: \$ 768.00 DATE MARCH 2, 2006
11. TELEPHONE (Include area code) (517) 355-2186	12. FAX (Include area code) (517) 432-3880	13. E-MAIL	
14. CROP KIND (Common Name) <i>black bean</i> small red bean	16. FAMILY NAME (Botanical) Fabaceae	18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERCIALIZATION.	
15. GENUS AND SPECIES NAME OF CROP Phaseolus vulgaris L.	17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) <input checked="" type="checkbox"/> YES (If "yes", answer items 21 and 22 below) <input type="checkbox"/> NO (If "no", go to item 23)	
19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input type="checkbox"/> Filing and Examination Fee (\$3,652), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)		21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, WHICH CLASSES? <input checked="" type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input checked="" type="checkbox"/> CERTIFIED	
23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U.S. OR OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)		22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS. <input checked="" type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input checked="" type="checkbox"/> CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)	
25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.  The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.  Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.		24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)	

SIGNATURE OF OWNER		SIGNATURE OF OWNER	
NAME (Please print or type) Loraine J. Hudson		NAME (Please print or type) Loraine J. Hudson	
CAPACITY OR TITLE Director	DATE 06/22/05	CAPACITY OR TITLE Director	DATE

(See reverse for instructions and information collection burden statement)

**GENERAL:** To be effectively filed with the Plant Variety Protection Office (PVPO), **ALL** of the following items must be **received** in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to **reproduce** the variety, or for tuber reproduced varieties verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

**Plant Variety Protection Office**

**Telephone: (301) 504-5518**

**FAX: (301) 504-5291**

**Homepage:** <http://www.ams.usda.gov/science/pvpo/pvindex.htm>

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that name has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, 10301 Baltimore Avenue, Suite 401 NAL Building, Beltsville, MD 20705. Telephone: (301) 504-5682 <http://www.ams.usda.gov/lsg/seed.htm>.

## ITEM

- 19a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;  
(2) the details of subsequent stages of selection and multiplication;  
(3) evidence of uniformity and stability; and  
(4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:  
(1) identify these varieties and state all differences objectively;  
(2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and  
(3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
20. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

## 22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

Foundation Class Seed can be multiplied five (5) generations: No Recognized Registered Class: Certified Class Seed can be multiplied once (1).

## 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

Certified Class Seed of Condor Black Bean is scheduled for sale in May 2006.

## 24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

**NOTES:** It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotope, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

**EXHIBIT A - ORIGIN AND BREEDING HISTORY:**

- Winter 1996* Original cross 96B002 was made in the greenhouse in E. Lansing, MI.  
Parentage: Phantom/Black Jack  
Phantom is a full season type-II black bean variety with resistance to races 7 and 73 of anthracnose and common strains of BCMV.  
Black Jack is a commercial black bean cultivar with good canning quality.  
F<sub>1</sub> plants (97A2) were grown and selfed in the field in Saginaw, MI during summer 97 and no selection was practiced in this generation.
- Summer 1998* Single plant selection no. 5 was made in F<sub>2</sub> nursery (98L-5) at Saginaw MI on the basis of agronomic and black bean seed traits. Traits selected included: upright type II growth habit, short vine development, lodging resistance, mid-season maturity and uniform dry down. Seed color and size traits were selected as acceptable commercial black bean seed class.
- Winter 1999* A single F<sub>2:3</sub> progeny row (99T-5) was grown and mass selected for seed and agronomic traits at Isabela, Puerto Rico. Traits selected included upright short vine, lodging resistance, good pod load, black bean seed size and color, and freedom from diseases. Remnant seed was screened for resistance to the NL-3 strain of BCMV in the greenhouse and only seed of resistant individuals was returned from PR.
- Summer 1999* Single plant selection no. 1 was made in the F<sub>3:4</sub> nursery (99T-1002) at Saginaw, MI for upright architecture, lodging resistance, acceptable pod load and placement, uniform mid-season maturity, and commercial black bean seed traits. All future selections are F<sub>4</sub>-derived as the line was mass selected in later generations.
- Winter 2000* A single F<sub>4:5</sub> progeny row (99T-1) was grown and mass selected at Isabela, PR on the basis of agronomic and seed traits, similar to those described in the F<sub>4</sub> generation. Remnant seed was confirmed to be resistant to BCMV, strain NL 3 and anthracnose races 7 and 73 in the greenhouse in E. Lansing.
- Summer 2000* A F<sub>4:6</sub> breeding line coded 96B002-05-01-01 entered replicated yield trials at Saginaw, MI with the permanent code number B00101. Canning tests were initiated. The line was advanced based on superior yield performance, and excellent canning quality.
- Summer 2001-03* Over four years of testing breeding line B00101 was advanced from F<sub>7</sub> to F<sub>10</sub> generation, yield tested at 27 locations in mid-Michigan, and at locations in ND, and WA. White mold screening was conducted each year in Montcalm, MI and canning tests were conducted on seed produced at the Michigan locations.
- Winter 2001* A source of breeder seed of B00101 was increased in the greenhouse in E. Lansing, MI and sent to Washington to establish a western seed source in 2002.
- Winter 2003* Based on continued superior yield, acceptable maturity, anthracnose resistance, white mold tolerance and canning performance, **B00101** was released under the variety name **CONDOR**. Western breeder seed was produced in Idaho in 2003, Foundation Class Seed in 2004, and Certified Class Seed was produced in 2005.

**EXHIBIT A -**  
[Supplement]  
AAA**UNIFORMITY AND STABILITY (Cont.)**

Uniformity and Stability: Since initially selected, the cultivar CONDOR is uniform and stable within commercially acceptable limits and breeds true to type. CONDOR is maintained through pure-line selection and has been monitored for seven generations from the F<sub>6</sub> to F<sub>12</sub> generation. During this time, CONDOR has been uniform and stable, with no variants observed.

**EXHIBIT B -****STATEMENT OF DISTINCTNESS:**[Replacement]  
AAA

Distinctness: CONDOR is most similar to the black bean cultivar Black Jack. Condor differs from Black Jack in having resistance to race 73 of anthracnose. Condor carries the Co-1 anthracnose resistance gene, which conditions resistance to race 73 to which Black Jack is susceptible.

Reference: Kelly, J.D. and V. A. Vallejo. 2004. A comprehensive review of the major genes conditioning resistance to anthracnose in common bean. HortScience 39(6):1196-1207.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY  
PLANT VARIETY PROTECTION OFFICE  
BELTSVILLE, MD 20705

Exhibit C

OBJECTIVE DESCRIPTION OF VARIETY  
Field Bean (*Phaseolus vulgaris* L.)

NAME OF APPLICANT (S) MICHIGAN STATE UNIVERSITY	TEMPORARY OR EXPERIMENTAL DESIGNATION B00101	VARIETY NAME CONDOR
ADDRESS (Street and No. or RD No., City, State, Zip Code, and Country) MICHIGAN STATE UNIVERSITY OFFICE OF INTELLECTUAL PROPERTIES 246 ADMINISTRATION BUILDING EAST LANSING, MI 48824		FOR OFFICIAL USE ONLY  PVPO NUMBER <b>200500291</b>

## PLEASE READ ALL INSTRUCTIONS CAREFULLY:

Provide data for all characters unless indicated as "optional". Place numbers in the boxes for the characters or numerical values that best describe this variety. Measured data should be the mean of an appropriate number of well spaced (15-20 cm) plants. The Royal Horticultural Society or any recognized color standard may be used to determine plant color. Designate the color system used below.

COLOR SYSTEM USED:	LOCATION OF THE TEST(S) TO EVALUATE THIS VARIETY:																																								
<b>1. MARKET CLASS:</b> <table border="1"> <tr> <td>0</td> <td>3</td> </tr> </table> <table border="0"> <tr> <td><u>CLASS</u></td> <td><u>CHECK</u></td> </tr> <tr> <td>1 = Navy (Pea)</td> <td>Seafarer</td> </tr> <tr> <td>2 = Small White</td> <td>Aurora</td> </tr> <tr> <td>3 = Black</td> <td>Midnight</td> </tr> <tr> <td>4 = Pinto</td> <td>UI-114</td> </tr> <tr> <td>5 = Great Northern</td> <td>UI-59</td> </tr> <tr> <td>6 = Small Red</td> <td>NW-59</td> </tr> <tr> <td>7 = Pink</td> <td>Viva</td> </tr> <tr> <td>8 = Cranberry</td> <td>UI-50</td> </tr> <tr> <td>9 = Dark Red Kidney</td> <td>Montclair</td> </tr> <tr> <td>10 = Light Red Kidney</td> <td>Redcloud</td> </tr> <tr> <td>11 = Yellow Eye</td> <td>Steuben</td> </tr> <tr> <td>12 = Other (Specify _____)</td> <td></td> </tr> </table>	0	3	<u>CLASS</u>	<u>CHECK</u>	1 = Navy (Pea)	Seafarer	2 = Small White	Aurora	3 = Black	Midnight	4 = Pinto	UI-114	5 = Great Northern	UI-59	6 = Small Red	NW-59	7 = Pink	Viva	8 = Cranberry	UI-50	9 = Dark Red Kidney	Montclair	10 = Light Red Kidney	Redcloud	11 = Yellow Eye	Steuben	12 = Other (Specify _____)		<b>2 = MATURITY:</b> <table border="1"> <tr> <td>2</td> <td>1 = Early (80-90 days)</td> <td>2 = Medium (90-100 Days)</td> <td>3 = Late (&gt; 100 Days)</td> </tr> </table> <table border="1"> <tr> <td>9</td> <td>5</td> </tr> </table> Days from Planting to Harvest Maturity <table border="1"> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table> Heat Units from Planting to Harvest Maturity (Optional). Specify Base Temperature Used: _____ <table border="1"> <tr> <td>9</td> <td>9</td> </tr> </table> Days from Planting to Harvest Maturity of Check Variety (Use Check Appropriate to Market Class Shown in Item 1)	2	1 = Early (80-90 days)	2 = Medium (90-100 Days)	3 = Late (> 100 Days)	9	5					9	9
0	3																																								
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9	5																																								
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## 3. PLANT HABIT:

TYPE 3

4	9	Average Height of Mature Plant, in cm.
5	4	Average Height of Check Variety, in cm. (Use Same Check as Above)
2	Pod Position:	1 = Low (Lower Pods Touching Soil Surface) 2 = High (Lower Pods not Touching Soil Surface) 3 = Scattered (Not Concentrated High or Low)
1	Adaptability to Machine Harvest:	1 = Adapted 2 = Not Adapted
2	Lodging Resistance:	1 = Good 2 = Fair 3 = Poor

- 1 = Ia Bush-determinate, Strong and Erect Stem and Branches  
 2 = Ib Bush-determinate, Weak Stem and Branches  
 3 = IIa Erect Growth Habit-indeterminate, Guides (Runners) short or not developed  
 4 = IIb Erect Growth Habit-indeterminate, Guides Medium to Long, with no Ability to Climb  
 5 = IIIa Vine-indeterminate, Short Guides with no ability to Climb  
 6 = IIIb Vine-indeterminate, Long Guides with Ability to Climb  
 7 = IVa Indeterminate Climbing, Pods Distributed Throughout the Plant  
 8 = IVb Indeterminate Climbing, Pods Concentrated on the Upper Part of the Plant

**4. LEAFLET MORPHOLOGY:** (Use terminal Leaflet of a Fully Expanded Trifoliolate)

200500291

☐ 2    1 = Smooth    2 = Wrinkled    
 ☐    1 = Dull    2 = Glossy    3 = Semiglossy    4 = Variable

Shape:

1 = Ovate

2 = Lanceolate

3 = Deltoid

4 = Cordate

5 = Rhomboid

☐ 1

Apex of Leaflet:

1 = Acute

2 = Acuminate

3 = Cuspidate

4 = Obtuse

☐ 2

Base of Leaflet:

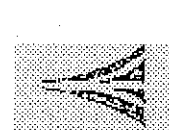
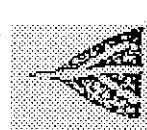
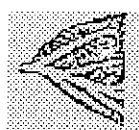
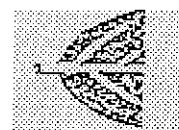
1 = Obtuse

2 = Oblique

3 = Cordate

4 = Cuneate

5 = Attenuate

☐ 1**5. FLOWER COLOR AND DAYS TO BLOOM:**☐ 5

Color of Standard:

1 = White

2 = Cream

3 = Pink

4 = Blue

5 = Purple

☐ 5

Color of Keel:

1 = White

2 = Cream

3 = Pink

4 = Blue

5 = Purple

☐ 5

Color of Wings:

1 = White

2 = Cream

3 = Pink

4 = Blue

5 = Purple

☐ 4    ☐ 9

Days to 50% Bloom

**6. POD MORPHOLOGY:** (Green Pod Morphology Optional)

Green    Mature

☐☐ 1

Color Pattern:

1 = Solid

2 = Striped

3 = Blotched

4 = Mottled

5 = Other \_\_\_\_\_

☐☐ 1

Primary Color:

1 = Purple

2 = Red

3 = Green

4 = Yellow

5 = Tan

6 = Brown

7 = Other \_\_\_\_\_

☐☐ 3

Color Modifier:

1 = Light

2 = Light Medium

3 = Medium

4 = Medium Dark

5 = Dark

☐☐ 6

Secondary Color:

1 = Purple

2 = Red

3 = Green

4 = Yellow

5 = Tan

6 = Brown

7 = Other \_\_\_\_\_

☐☐ 1

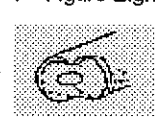
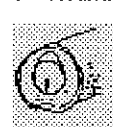
Cross Section Shape:

1 = Flat

2 = Pear

3 = Round

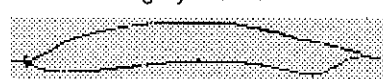
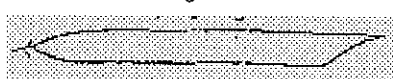
4 = Figure Eight

☐☐ 3

Pod Curvature

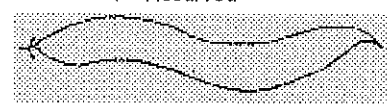
1 = Straight

2 = Slightly Curved



3 = Curved

4 = Recurved

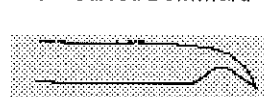
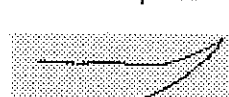
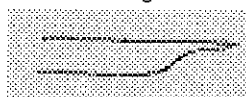
☐☐ 3

Pod Beak Orientation:

1 = Straight

2 = Curved Upward

3 = Curved Downward


 4 = Variable  
 Average Beak Length,  
 in cm. \_\_\_\_\_
☐☐ 1

Constrictions:

1 = None

2 = Slight

3 = Deep

☐ 5☐ 5

Average Number of Seeds per Pod





13. COMMENTS:

200500291

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE**EXHIBIT E**  
**STATEMENT OF THE BASIS OF OWNERSHIP**

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S)  Michigan State University	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER  B00101	3. VARIETY NAME  Condor
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)  Michigan State University Office of Intellectual Property 246 Administration Bldg. East Lansing, MI 48824	5. TELEPHONE (Include area code)  (517) 355-2186	6. FAX (Include area code)  (517) 432-3880
7. PVPO NUMBER  200500291		

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain.

☒

YES

☐

NO

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country.

☒

YES

☐

NO

10. Is the applicant the original owner?

☒

YES

☐

NO

If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐

YES

☐

NO

If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☐

YES

☐

NO

If no, give name of country

11. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):

The United States Department of Agriculture -ARS collaborated with Michigan State University (MSU) in the testing of Condor, but USDA not a co-owner of the variety. All breeders of 'Condor' are MSU employees.

**PLEASE NOTE:**

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.